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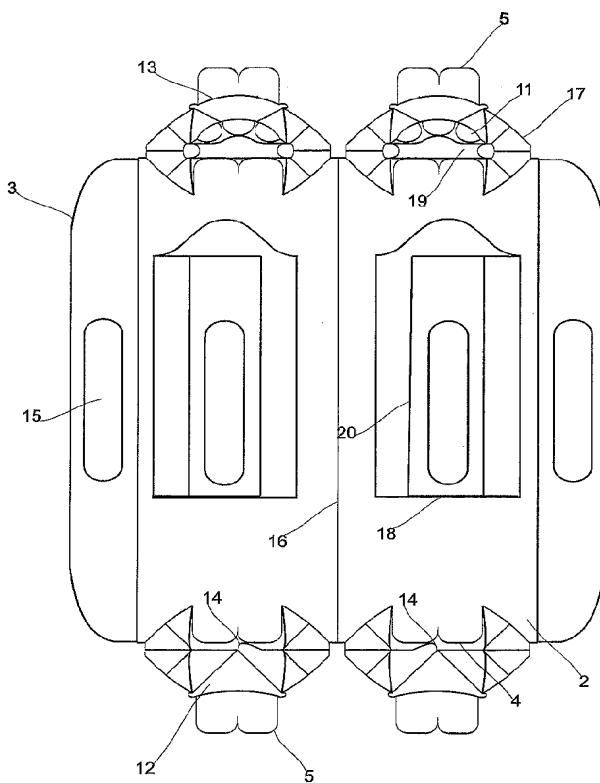
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(54) Title: MULTI-FUNCTION BOX



(57) Abstract: This invention is about a multi-function box, the body of which can be in the shape of a cylinder, ellipse and polygon and which has legs, a lid and handles. The aim of the present invention is, because of the handles attached to it, to enable the goods in the multi-function box to be carried without the use of an additional container or a bag. Another aim of the present invention is to enable the multi-function box to stand up on its legs regardless of the fact that goods inside the box are placed horizontally or vertically. A further aim of the present invention is, if the goods carried inside the box are drink bottles, to enable the serving of the bottle due to the fact that as the bottle is supported from the neck and held by the handles, the neck and the mouth of the bottle remain outside the box. Another aim of the present invention is to show if the box has been opened previously for serving purposes by having a box lock formed on the cap of the bottle by folding of the top covers.

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A MULTI-FUNCTION BOX

Technical Field

5 This invention relates to a multi-function box, the body of which can be in the shape of a cylinder, ellipse and polygon and which has legs, a lid and handles.

Prior Art

10 The existing box models as known in the art can be used to carry several and different types of goods. Particularly, box models developed for esthetic value and ease to carry various goods are known in the art and these boxes are readily available in the market. At present there are various types of boxes especially developed to carry a single bottle or a multitude of bottles all at once.

15 At present there are various types and shapes of casing developed for bottles, such as liquor bottles, which need to be protected at times of storage and are also aimed to have an esthetic presentation. Several patent applications for inventions related to the casings described above as known in the art are detailed below.

20 The first one of these is the box described in European Patent application numbered EP1477412. The box described in this application is used to carry one or more bottles. Furthermore, the box contains an opening to which the tip of the bottle can fit and when this opening is closed, it protects the bottle/s from shaking as much as possible while being carried and also hides the bottles from view.

25 The International Patent application numbered WO2005/036076 describes a box the insides of which is covered with insulation material and which can cover a liquor canister with a valve. The said box especially can be used to store liquid in a bottle which needs to keep its temperature for long periods of time.

Besides this, the International Patent application numbered WO2003/095315 describes a box which can be used to carry bottles of wine. The box described in this invention opens to enable presentation of the bottle inside following the 5 opening of the box lid.

As can especially be seen in bottled drinks and food products, three different products accompany the original product until the product is consumed or used. These are a box, a bag and a container.

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- Box: The well known types of boxes are usually rectangular and have a lid; their function is to protect the product inside and may have the description of the product, picture and name written on the cover. Some of these boxes may have lids (e.g. cake boxes).
- Bag: Bags of known type are used to carry goods and have attached or fixed handles, and are either folded or straight. Their only contribution to the goods is to carry them.
- Container: There are a multitude of known types of containers, and they are an instrument used to serve the goods. They can be manufactured from any kind of material. They are not a part of the product itself.

Although the patent applications described above as well as the examples of carrier boxes known in the art can make the carrying of bottles easy, help them to stay cold while being served or are esthetically pleasing at time of presentation, 25 they can not provide all of the features listed above on their own.

Brief Description of the Invention

The object of the present invention is, due to the handles attached to it, to enable 30 the goods in the multi-function box to be carried without the use of an additional container or a bag. Another object of the present invention is to enable the multi-

function box to stand up on its legs regardless of the fact that goods inside the box are placed horizontally or vertically. A further object of the present invention is, if the goods carried inside the box are drink bottles; to enable the serving of the bottle due to the fact that as the bottle is supported from the neck and held by the handles, the neck and the mouth of the bottle remain outside the box. Yet another aim of the present invention is to show that the box is ready to be used for the first time due to the presence of the lock through the upper lid of the box.

To attain the afore-mentioned objects of the present invention; the box contains a body from a single material, cut or crushed (conical folding to enable the material to bend) to be shaped as a cylinder, ellipse or a polygon, feet attached to the body, a lid and handles for the box to form a multi-function box to meet the need for a box, a bag and a container on its own. In addition to this, with the presence of the folded handle casings strengthened with the support winglets attached to the body, the carrying capacity of the handles are further increased, enabling the bottle inside to be carried more securely.

The goods are taken out of the bag once the carrying function is completed. They are taken out of the box too, at the stage of consumption. The container essentially is not part of the goods. The present invention fulfills the functions of the container, the box and the bag single handedly. Because of this characteristic it is cost effective, elegant as well as simple and easy to use.

Detailed Description of the Invention

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The box realized in order to attain the object of the invention is illustrated in the accompanying figures, wherein;

Figure 1: Is the open view of the multi-function cylinder shaped box.

30 Figure 2: Is the closed perspective view of the multi-function cylinder shaped box.
Figure 3: Is the perspective view of the base for the multi-function cylinder shaped box.

Figure 4: Is the perspective view of the top of the multi-function cylinder shaped box.

Figure 5: Is the view of the handle casings attached to the handles of the cylinder shaped multi-function box.

5 Each of the parts shown in the figures is numbered and the part corresponding to the number is listed below;

	1	Box
	2	Side wall
10	3	Handle
	4	Outer leg
	5	Inner leg
	6	Base
	7	Top
15	8	The leg on the handle side
	9	The leg across from the handle
	10	The mouth
	11	Support ledge
	12	Base cover
20	13	Top cover
	14	Claw
	15	Cavity
	16	Crush fold
	17	Cutoff
25	18	Window
	19	The box lock
	20	Support winglets
	21	Handle casing
	22	Atriums

The box (1), which is the subject of the present invention, has three basic types and fundamentally comprises two side walls (2), a handle (3), two feet (8) located on the handle side, two feet (9) located on the opposite side of the handle, four outer leg (4) which are the continuation of the side walls (2), and support winglets 5 (20) to strengthen the handles (3) which are the continuation of the side walls (2), according to the type of the box; two bases (6), two tops (7) or a single base (6) and a single top (7) and the inner feet (5) belonging to these and a folded handle casing (21) imposed on the handles (3) and the support winglets (20) from the outside. Furthermore, if the box (1) contains a cover type top (7), it also contains 10 two top covers (13) located across from each other, support ledges (11) surrounding the top cover (13) and a box lock (19) enfolding the lid of the bottle located inside the box (1).

The box (1) may be manufactured as a whole from a single piece of card board or 15 corrugated card board, mill board, PVC, aluminum of equal standing or from any other pliable and foldable material in consideration for the cutoff (13) and crush folds (16).

The box (1) which is the subject of the present invention is described below in 20 accordance with the basic types;

- A box (1), the height of the side walls (2) and base (6) measurements of which may be manufactured in different sizes in accordance with the goods needed to be carried, containing a handle (3) and two bases (6).
25
- A box (1) which can be used to carry bottles, the bottles to be served without being taken out of the said box (1), containing a handle (3) strengthened with support winglets (20) and handle casing (21), a base (6) to carry the said bottle, a top (7) which enables the tip of the bottle to protrude from the mouth (9) of the box (1) and which supports the bottle by its neck through the cover (12) and the support ledges (11), where the height of the side walls (2) are approximately equal to the height of the
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bottle and the circumference of the base (6) is equal to the circumference of the bottle.

5 - A box (1) containing various parts such as a handle (3), two tops (7) and side walls (2) which can be manufactured in different dimension and measurements to meet the specified needs.

10 The box (1) the shape of which is basically cylindrical has two side walls (2) which are on opposite sides and which surround the said box. The side walls (2) stand side by side, when the box (1) is open, the said side walls (2) contain one handle (3) each on both sides and support winglets (20) on both inner sides, to strengthen the handles. When the box (1) is folded from the side walls (2) place of joint, the handles (3) and the support winglets (20) are positioned on top of each 15 other.

20 The support winglets (20) are folded on the inside towards the top of the handles (3) hence they are positioned on top of each other. With the support winglets (20) and the handles overlapping, the handles (3) gain additional strength, and with the handle casings (21) fitting exactly between the handles (3) and the support winglets (20) from the outside, making the handles (3) and the support winglets (20) overlap to bond and/or cement together with the handle (3) providing a better grip, thereby making the carrying of the bottles inside safer. After the handle casing (21) is folded in order to totally encompass the handles (3) and the support 25 winglets (20), its cross section is in the shape of the letter "W".

30 At least 4 atriums (22) located at the tip of the handle casing (21), are folded towards the inner side of the handles (3), and are positioned to overlap with the handles (3). With the atriums (22) being bonded and/or cemented to the inside of the handles (3), another point of origin is formed for the handle casings (21) to hold on to the handles (3).

When the handles (3), support winglets (20) and handle casing (21) are overlapped to bond and/or cement to each other; a cavity limited by the length of the two side walls (2) within the box (1) is formed. It is possible for the side walls (2) to yield out and to form half a circle or an ellipse, and it is also possible to fold
5 them various number of times and frequencies to make the shape a polygenic formation. Depending on the shape of the side walls (2), it is possible to change the shapes of the base (6) and the top (7) covers accordingly.

The outer legs (4) located on the continuation of the side walls (2) are formed by
10 folding the leg on the handle side (8) and the leg on the opposite side of the handle (9) with the pieces cut from of base (6) and the top (7), from the folding edges folded inwards. In addition to this, the part that is formed by folding the piece left at the end while folding the piece of the base (6) inwards, to the opposite direction, it enables the piece to settle completely to the back of the outer
15 leg (4) and form the inner leg (5).

As stated above, the base (6) piece is located at the continuation of the side wall (2). With the side walls (2) closing on top of each other, the two pieces of the base (6) formed across from each other, are folded inwards from the middle axis of the
20 box (1) and placed on top of each other. Both of these base (6) pieces span a base cover (12), covering half of the base section of the box (1). By placing these two pieces on top of each other, it is possible to close one side of the box (1) completely from the middle axis.
25 It is necessary to lock the base (6) once it is closed off with the base covers (12) in order for it not to open again. This locking process is carried out with the aid of the claws (14) located on the inner face of the base covers (12). With the closing of both of the base covers (12) on top of each other, the claw (14) of the cover which is on the top moves under the base cover (12) across from it to complete the
30 locking process.

The top (7) is also formed from two pieces which overlap, similar to the base (6). Once the afore-mentioned pieces are closed off, the mouth (10) is formed in the middle by the two top covers (13) closing off to support the necks of the bottles
5 carried inside. Top covers (13) contain support ledges (11) to increase strength when the bottles are being supported and to enable them to adapt to bottles of varying widths. The support ledges (11) which can be in various shapes and numbers are lined on the inner face of the base cover (13). In a preferred embodiment, three support ledges (11) in the form of a half circle located on each
10 of the top covers (13) may be adequate to support the neck of the bottle. Furthermore, the box lock (19) located on the top (7) cover (13) parallel to the claw (14) and passing through the claw (14) and the top (7) locking mechanism, aids the support ledges (11) in preventing the bottle from moving around and in addition to this forms a locking mechanism for the people who will use the box
15 (1), showing that the box (1) will be used for the first time for serving purposes. The box lock (19) located on the top (7) side can be opened by tearing the points connecting the box lock (19) to the top (7).

Besides this, in order for the top (7) to form inner legs (5) similar to the base (6),
20 the end piece needs to be folded towards the opposite direction while the top (6) piece is being folded inwards, and placed behind the outer legs (4). During this process, the box locks (19) located on the legs of the top (7) piece, are placed on top of each other by the inwards folding of the top (7) piece, and gripping the bottle cap from the top.

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With the covers of the base (6) and the top (7) closing on top of each other, the pieces left on the side of the base cover (12) and top cover (13) which are approximately triangularly shaped are also closed on top of each other. As a result of each of the **triangular pieces** closing off, the leg on the handle side (8) and the
30 leg opposite to the handle side (9) are formed. In order for one of the legs to be formed, three different triangle shaped pieces need to overlap.

The leg on the handle side (8) is formed by the following pieces fitting on top of each other;

- The triangular piece formed by joining small the triangular piece from the outer legs (4) extending from the side wall (2) cutoff portion to the handle (3) on the other side wall (2), with the small triangular piece located at the same place on the opposite wall,
5
- The triangular piece formed by closing off of the small triangular pieces located on the handle (3) side of the top cover (13) or the base cover (12) which is the continuation of one of the side walls (2), on top of the small triangles located on the side wall (2), at an angle and;
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- The triangular piece formed by closing off of the small triangular pieces located on the handle (3) side of the top cover (13) or the base cover (12) which is the continuation of the other one of the side walls (2), completely
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- on top of the cover counterpart.

The leg on the opposite side of the handle (9) is formed by the following pieces fitting on top of each other;
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- The triangular piece formed by joining small the triangular piece from the outer legs (4) extending from the side wall cutoff portion to the handle (3) on the other side wall (2), with the small triangular piece located at the same place on the opposite wall,
25
- The triangular piece formed by closing off of the small triangular pieces located on the handle (3) side of the top cover (13) or the base cover (12) which is the continuation of one of the side walls (2), on top of the small triangles located on the side wall (2), at an angle and;
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- The triangular piece formed by closing off of the small triangular pieces located on the handle (3) side of the top cover (13) or the base cover (12)

which is the continuation of the other one of the side walls (2), completely on top of the cover counterpart.

5 The leg on the handle side (8) and the leg on the side across from the handle (9) are thus formed and contain two **triangular pieces** closing on top of each other and a third one placed at an angle to the first two. Due to the aforementioned three piece structure, a stronger leg is formed. However, in order to strengthen the said legs further and to prevent them from degrading with the weight of the load, the
10 ends of the leg in contact with the floor may be blunted.

The handle (3) as is mentioned above, is formed by joining of the handle (3) pieces across from each other, located on the side walls (2) with the support
15 winglets (20) and the handle casing (21). In this way, while the box (1) is being carried, the handle pieces (3) which carry the load remain connected to both of the side walls (2). In order to further enhance the durability of the handle (3) various filling elements may be incorporated within.

20 In a preferred embodiment of the present invention, the handle (3) size is exactly equal to the height of the box (1). However, in different embodiments of the present invention, it is possible to make the size of the handle (3) smaller and to attach the handle (3) to the mid point of the cavity (15) as well as upwards or downwards or to mount the handle (3) at an angle.
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With windows (18) of various sizes and shapes which may be opened at various places on the side walls (2), information may be provided about the contents of the box (1), without the need to open the box (1) itself. Especially when elements like bottles are being carried, with one or more windows (18) being opened on the
30 side walls (2), inspection of both the contents and the amount of liquid remaining in the bottle may be carried out. Also, the aforementioned windows (18) may be

covered with cellophane or acetate by using the various covering forms known in the art.

It is possible to cover the inside of the box (1) or the outside with insulation
5 materials to maintain the temperature of the product inside the box (1). For this end, it is possible to manufacture the dimensions of the box (1) to be larger than the radius of the bottle or any other product to be put inside and inner walls of the box (1) to be covered with polyurethane (foam).

CLAIMS

1. A box (1) manufactured from a single piece card board or its equivalent corrugated card board, mill board, PVC, aluminum or from any other pliable and foldable material in consideration for the cutoff (17) and crush folds (16);

5 comprising two side walls (2), a handle (3), four outer leg (4) which are the continuation of the side walls, and four inner leg (5) and two bases (6); Characterized by;

10 ○ Two side walls (2) standing side by side when the box (1) is in open state,

15 ○ A handle (3) formed by folding the side walls (2) from their joining point overlapping to form a single piece, found on both sides of the side walls (2) and making the carrying of the box (1) easier with the aid of the cavity (15) on the inside,

20 ○ The outer legs (4) which are located on the continuation of the side walls (2) and are formed by folding the leg on the handle side (8) and the leg on the opposite side of the handle (9) with the pieces cut from of base (6) and the top (7), from the folding edges folded inwards, and

25 ○ The inner legs (5), which are formed by folding the piece of the base (6) inwards to the opposite direction and fitting it completely to the back of the outer leg (4) and ,

30 ○ Two bases (6) which can close off the two opposing open faces of the box (1), are formed on opposite sides with the closing of the side walls (2) on top of each other, and having four base covers (12) in total which, when folded inwards, each covering half of the cross section area of the box (1).

2. The box (1) described in Claim 1 characterized by having two support winglets (20) and handle casings (21) assembled to the two handle (3) pieces by folding on top of each other and bonding and/or cementing them and by bonding and/or cementing the atriums (22) found on the handle casing (21), to the handles (3).
5
3. The box (1) described in Claim 1 characterized by having two legs, one on the handle side (8) formed by the following pieces fitting on top of each other;

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- The triangular piece formed by joining small the triangular piece from the outer legs (4) extending from the side wall cutoff portion to the handle (3) on the other side wall (2), with the small triangular piece located at the same place on the opposite wall,
15
- The triangular piece formed by closing off of the small triangular pieces located on the handle (3) side of the top cover (13) or the base cover (12) which is the continuation of one of the side walls (2), on top of the small triangles located on the side wall (2), at an angle and;
20
- The triangular piece formed by closing off of the small triangular pieces located on the handle (3) side of the top cover (13) or the base cover (12) which is the continuation of the other one of the side walls (2), completely on top of the cover counterpart, and one leg on the opposite side of the handle (9) formed by the following pieces fitting on top of each other;
25
- The triangular piece formed by joining small the triangular piece from the outer legs (4) extending from the side wall cutoff portion to the handle (3) on the other side wall (2), with the small triangular piece located at the same place on the opposite wall,
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- The triangular piece formed by closing off of the small triangular pieces located on the handle (3) side of the top cover (13) or the base cover (12) which is the continuation of one of the side walls (2), on top of the small triangles located on the side wall (2), at an angle and;
- The triangular piece formed by closing off of the small triangular pieces located on the handle (3) side of the top cover (13) or the base cover (12) which is the continuation of the other one of the side walls (2), completely on top of the cover counterpart,

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Used to increase the endurance of the box (1) when it is in the upright position and to support the side walls (2).

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4. A box (1) described in any of the Claims above, characterized by having a locking mechanism to prevent the opening of the base covers (12) once they are closed, by the claws (14) located on the inner face of the base covers (12) moving under the base cover (12) across from it to complete the locking process.
5. A box (1) described in any of the Claims above, characterized by having filling material added between two support winglets (20) and handle casings (21) mounted to the two handle pieces by folding on top of each other and bonding and/or cementing them to increase endurance.
6. A box (1) described in any of the Claims above, characterized by having one or more windows (18) opened on the side walls (2) to enable the contents of the box (1) to be viewed and/or covering the said windows with cellophane or acetate.
7. A box (1) described in any of the Claims above, characterized by having insulation materials covering the inside or the outside to maintain the temperature of the product inside for a long time.

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8. A box (1) manufactured from a single piece card board or its equivalent corrugated card board, mill board, PVC, aluminum or from any other pliable and foldable material in consideration for the cutoff (17) and crush folds (16) to enable the carrying and the serving of the bottles inside without having to remove the said box (1); consisting of;

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Two side walls (2), a handle (3), four outer legs (4) which are the continuation of the side walls, and four inner legs (5) and two bases (6); characterized by;

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- Two side walls (2) standing side by side when the box (1) is in open state,
- A handle (3) formed by folding the side walls (2) from their joining point overlapping to form a single piece, found on both sides of the side walls (2) and making the carrying of the box (1) easier with the aid of the cavity (15) on the inside,
- The outer legs (4) which are located on the continuation of the side walls (2) and are formed by folding the leg on the handle side (8) and the leg on the opposite side of the handle (9) with the pieces cut from of base (6) and the top (7), from the folding edges folded inwards, and
- The inner legs (5), which are formed by folding the piece of the base (6) inwards to the opposite direction and fitting it completely to the back of the outer leg (4), and
- Two bases (6) which can close off the two opposing open faces of the box (1), are formed on opposite sides with the closing of the side walls (2) on top of each other, and having four base covers (12) in total which, when folded inwards, each covering half of the cross section area of the box (1).

9. The box (1) described in Claim 8 characterized by having two legs, one on the handle side (8) formed by the following pieces fitting on top of each other;

- The triangular piece formed by joining small the triangular piece from the outer legs (4) extending from the side wall cutoff portion to the handle (3) on the other side wall (2), with the small triangular piece located at the same place on the opposite wall,
- The triangular piece formed by closing off of the small triangular pieces located on the handle (3) side of the top cover (13) or the base cover (12) which is the continuation of one of the side walls (2), on top of the small triangles located on the side wall (2), at an angle and;
- The triangular piece formed by closing off of the small triangular pieces located on the handle (3) side of the top cover (13) or the base cover (12) which is the continuation of the other one of the side walls (2), completely on top of the cover counterpart, and the other leg on the opposite side of the handle (9) formed by the following pieces fitting on top of each other;
- The triangular piece formed by joining small the triangular piece from the outer legs (4) extending from the side wall cutoff portion to the handle (3) on the other side wall (2), with the small triangular piece located at the same place on the opposite wall,
- The triangular piece formed by closing off of the small triangular pieces located on the handle (3) side of the top cover (13) or the base cover (12) which is the continuation of one of the side walls (2), on top of the small triangles located on the side wall (2), at an angle and;
- The triangular piece formed by closing off of the small triangular pieces located on the handle (3) side of the top cover (13) or the base cover (12) which is the continuation of the other one of the side walls (2), completely on top of the cover counterpart,

used to increase the endurance of the box (1) when it is in the upright position and to support the side walls (2).

10. The box (1) described in Claim 8 characterized by having inner legs (5) on the top (7) covers similar to the base (6) by the end piece being folded towards the opposite direction while the top (6) piece is being folded inwards, and placed behind the outer legs (4) and during this process, the box locks (19) located on the legs of the top (7) piece being placed on top of each other by the inwards folding of the top (7) piece, and gripping the bottle cap from the top.
15. The box (1) described in Claim 8 characterized by having two support winglets (20) and handle casings (21) mounted to the two handle (3) pieces by folding on top of each other and bonding and/or cementing them and by bonding and/or cementing the atriums (22) found on the handle casing (21) to the handles (3).
20. The box (1) described in Claim 8 or 9 characterized by having a locking mechanism to prevent the opening of the base covers (12) once they are closed, by the claws (14) located on the inner face of the base covers (12) moving under the base cover (12) across from it to complete the locking process.
25. The box (1) described in any of the Claims from 8 to 12 characterized by having support ledges (11) lined on the inner surface of the base cover (12) to enable better endurance in supporting the bottle being carried inside and to make it possible to fit bottles of varying widths.
30. The box (1) described in any of the Claims from 8 to 13 characterized by having filling material added between the two handle (3) pieces by folding on top of each other and bonding and/or cementing them to increase endurance.

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15. The box (1) described in any of the Claims from 8 to 14 characterized by having one or more windows (18) opened on the side walls (2) to enable the contents of the box (1) to be viewed and/or covering the said windows with cellophane or acetate.

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16. The box (1) described in any of the Claims from 8 to 15 characterized by having insulation material covering the inside or the outside to maintain the temperature of the product inside for a long time.

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17. A box (1) which may be used for specified requirements and manufactured from a single piece card board or its equivalent corrugated card board, mill board, PVC, aluminum or from any other pliable and foldable material in consideration for the cutoff (17) and crush folds (16); consisting of;

Two side walls (2), a handle (3), four outer legs (4) which are the continuation of the side walls, and four inner legs (5) and two bases (6);

Characterized by;

20

- Two side walls (2) standing side by side when the box (1) is in open state,
- A handle (3) formed by folding the side walls (2) from their joining point overlapping to form a single piece, found on both sides of the side walls (2) and making the carrying of the box (1) easier with the aid of the cavity (15) on the inside,
- The outer legs (4) which are located on the continuation of the side walls (2) and are formed by folding the leg on the handle side (8) and the leg on the opposite side of the handle (9) with the pieces cut from of base (6) and the top (7), from the folding edges folded inwards, and

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- The inner legs (5), which are formed by folding the piece of the base (6) inwards to the opposite direction and fitting it completely to the back of the outer leg (4), and
- Two bases (6) which can close off the two opposing open faces of the box (1), are formed on opposite sides with the closing of the side walls (2) on top of each other, and having four base covers (12) in total which, when folded inwards, each covering half of the cross section area of the box (1).

10

18. The box (1) described in Claim 17 characterized by having two legs, one on the handle side (8) formed by the following pieces fitting on top of each other;

15

- **The triangular piece** formed by joining small the triangular piece from the outer legs (4) extending from the side wall cutoff portion to the handle (3) on the other side wall (2), with the small triangular piece located at the same place on the opposite wall,

20

- **The triangular piece** formed by closing off of the small triangular pieces located on the handle (3) side of the top cover (13) or the base cover (12) which is the continuation of one of the side walls (2), on top of the small triangles located on the side wall (2), at an angle and;

25

- **The triangular piece** formed by closing off of the small triangular pieces located on the handle (3) side of the top cover (13) or the base cover (12) which is the continuation of the other one of the side walls (2), completely on top of the cover counterpart, and the other leg on the opposite side of the handle (9) formed by the following pieces fitting on top of each other;

30

- **The triangular piece** formed by joining small the triangular piece from the outer legs (4) extending from the side wall cutoff portion to the handle (3) on the other side wall (2), with the small triangular piece located at the same place on the opposite wall,

- The triangular piece formed by closing off of the small triangular pieces located on the handle (3) side of the top cover (13) or the base cover (12) which is the continuation of one of the side walls (2), on top of the small triangles located on the side wall (2), at an angle and;
- The triangular piece formed by closing off of the small triangular pieces located on the handle (3) side of the top cover (13) or the base cover (12) which is the continuation of the other one of the side walls (2), completely on top of the cover counterpart,

5 10 Used to increase the endurance of the box (1) when it is in the upright position and to support the side walls (2).

15 19. The box (1) described in Claim 17 characterized by having two support winglets (20) and handle casings (21) assembled to the two handle (3) pieces by folding on top of each other and bonding and/or cementing them and by bonding and/or cementing the atriums (22) found on the handle casing (21) to the handles (3).

20 20. The box (1) described in Claim 17 characterized by having filling material added between the two handle (3) pieces by folding on top of each other and bonding and/or cementing them to increase endurance.

25 21. The box (1) described in any of the Claims 17 to 20, characterized by having one or more windows (18) opened on the side walls (2) to enable the contents of the box (1) to be viewed and/or covering the said windows with cellophane or acetate.

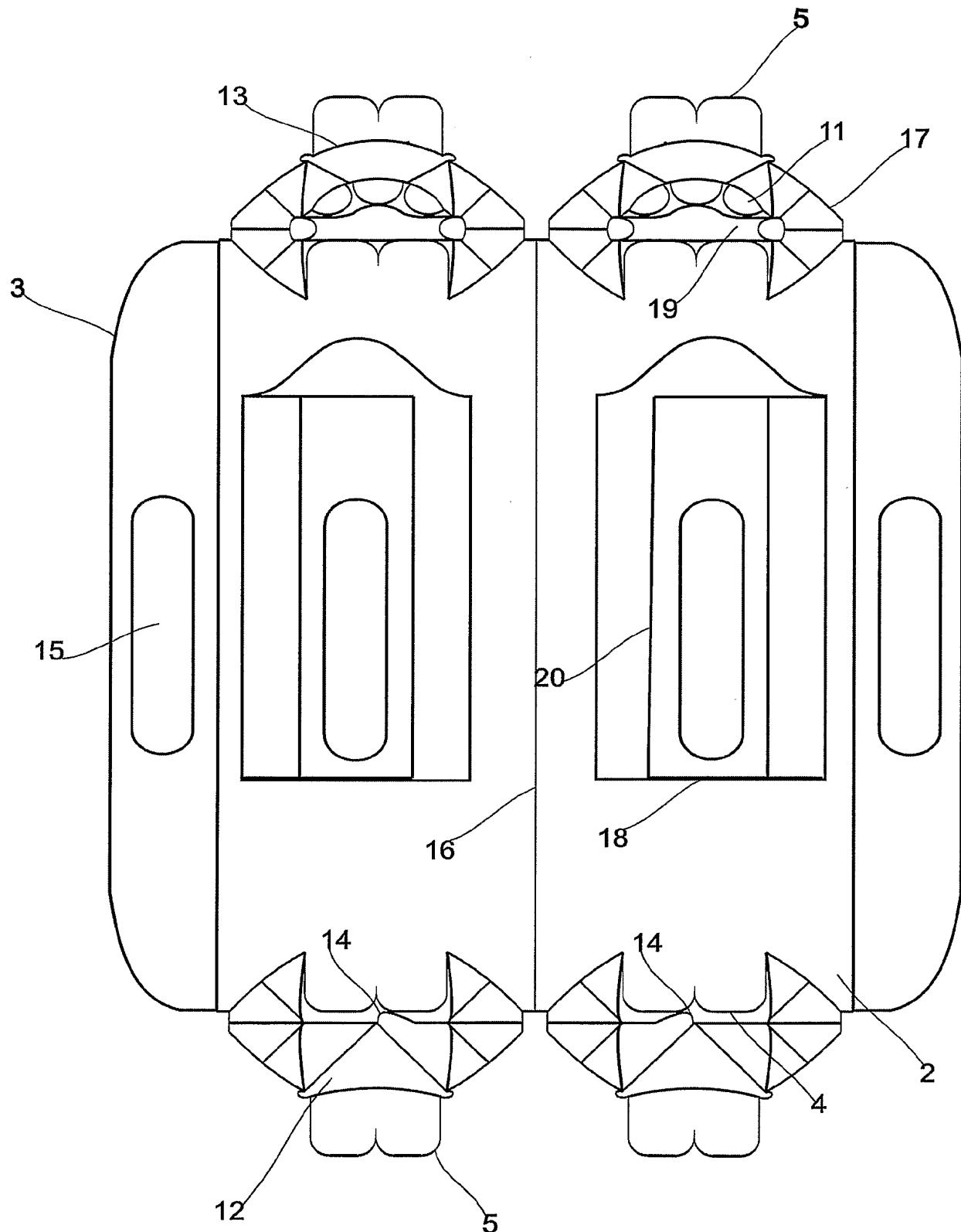


Figure 1

2 / 3

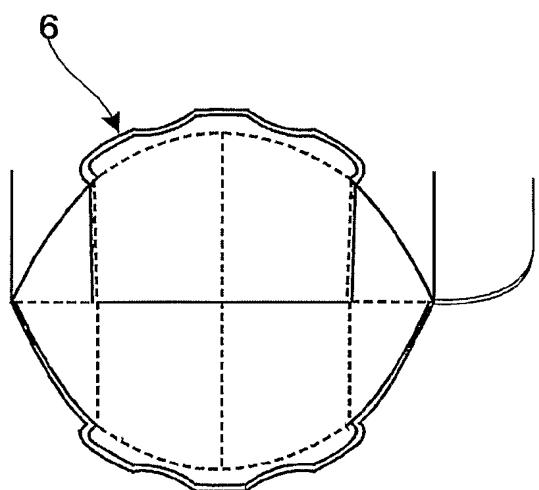
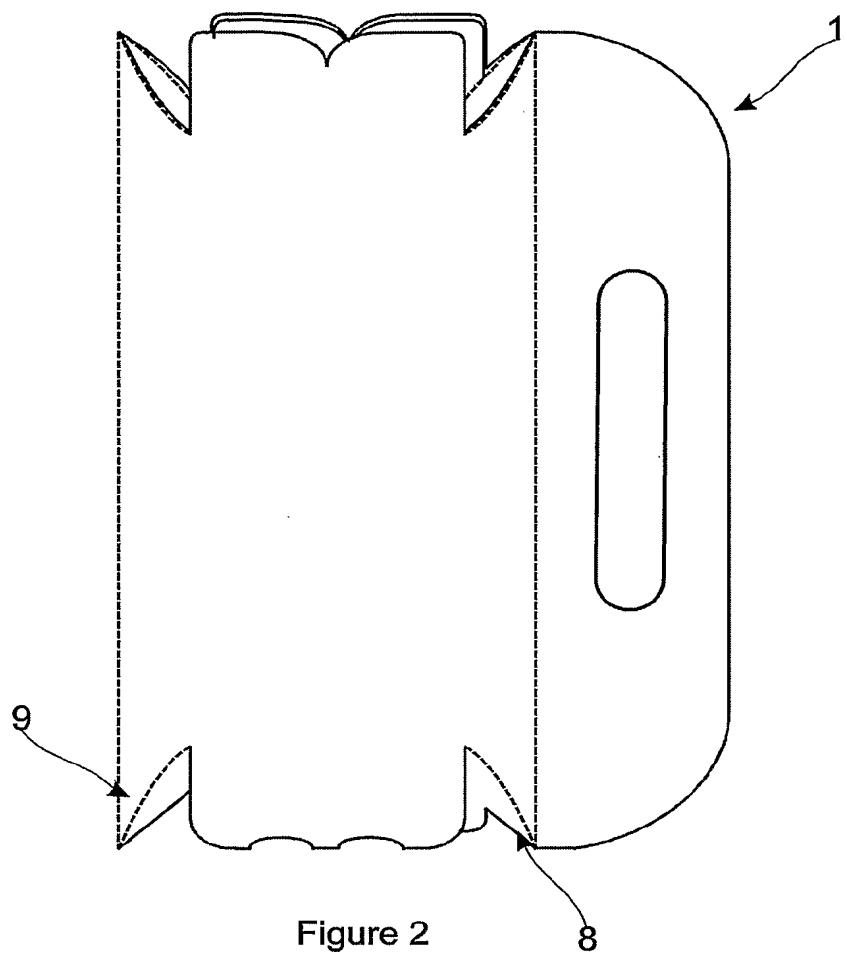


Figure 3

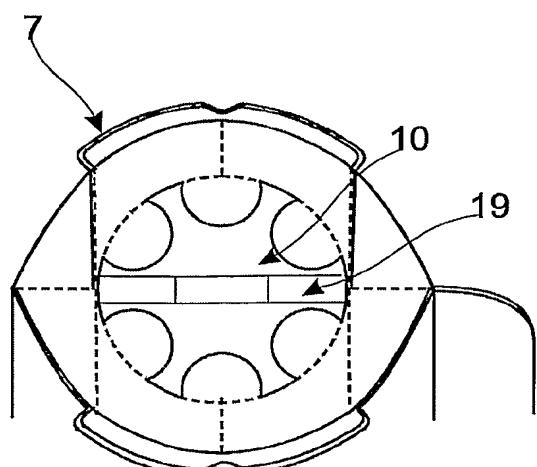


Figure 4

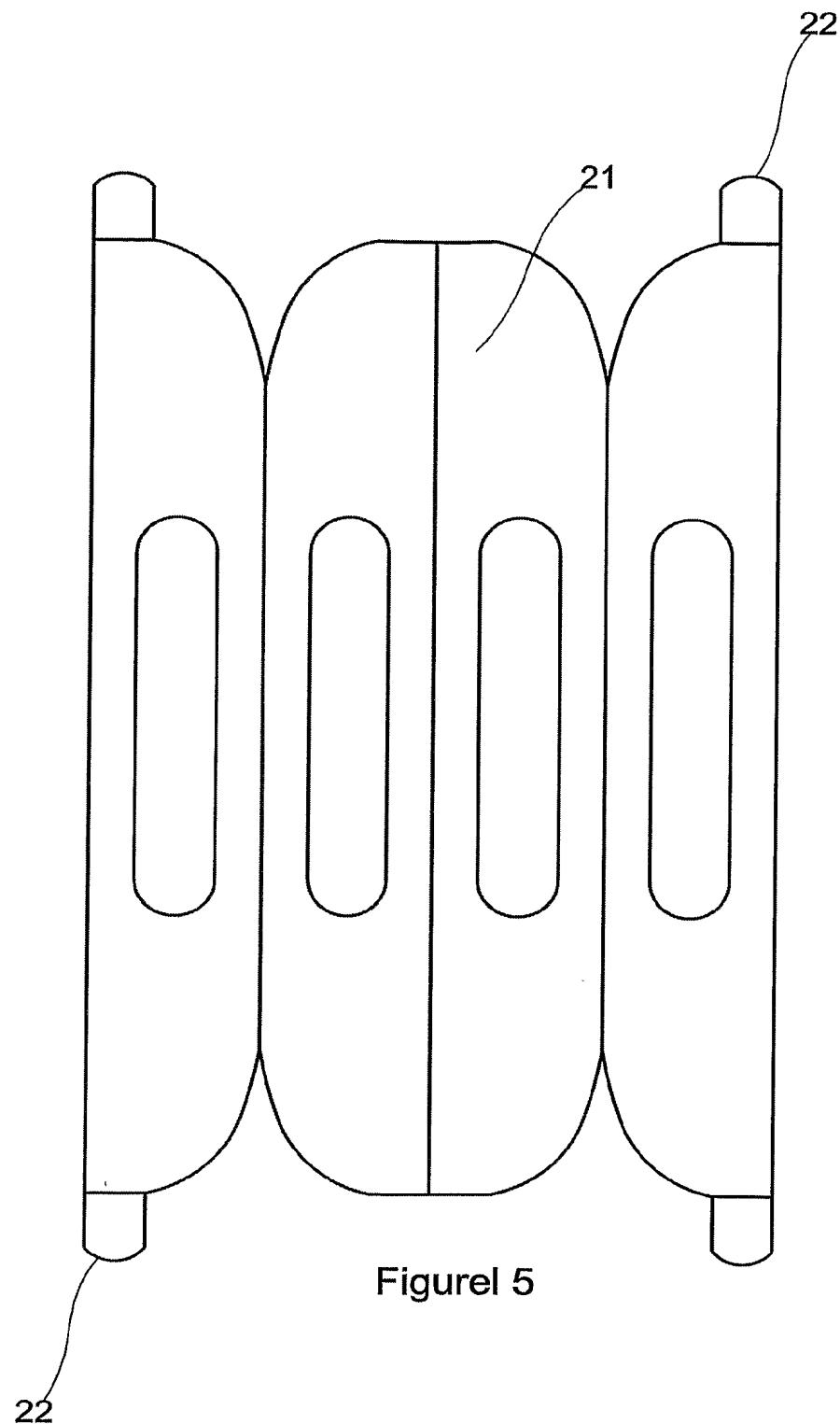


Figure 5

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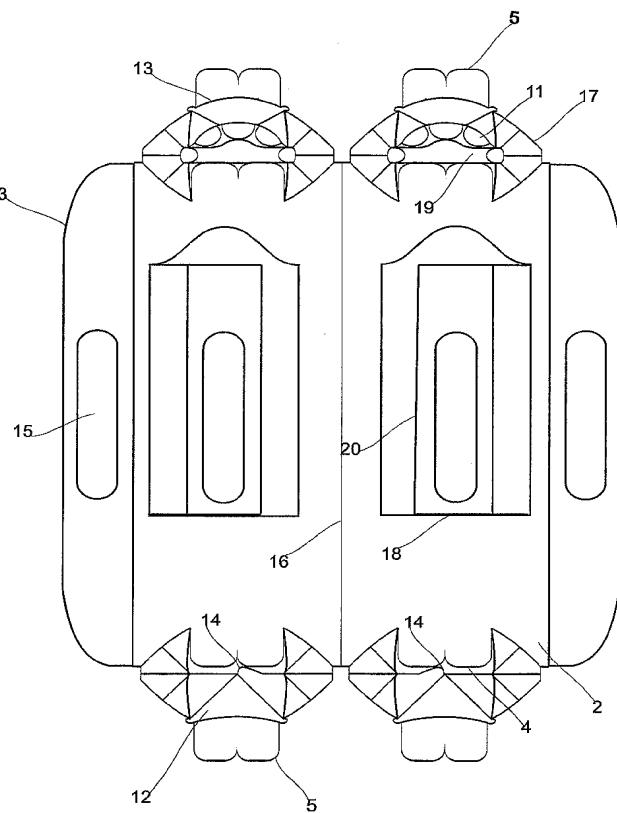
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(75) Inventor/Applicant (for US only): TAMER, Mehmet [TR/TR]; 5. Cadde No: 6/C, Demetevler, Ankara (TR).

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[Continued on next page]

(54) Title: MULTI-FUNCTION BOX



(57) Abstract: This invention is about a multi-function box (1), the body of which can be in the shape of a cylinder, ellipse and polygon and which has legs (4), a lid and handles (3). The aim of the present invention is, because of the handles attached to it, to enable the goods in the multi-function box to be carried without the use of an additional container or a bag. Another aim of the present invention is to enable the multi-function box to stand up on its legs regardless of the fact that goods inside the box are placed horizontally or vertically. A further aim of the present invention is, if the goods carried inside the box are drink bottles, to enable the serving of the bottle due to the fact that as the bottle is supported from the neck and held by the handles, the neck and the mouth of the bottle remain outside the box. Another aim of the present invention is to show if the box has been opened previously for serving purposes by having a box lock formed on the cap of the bottle by folding of the top covers.



PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM,
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CH 442 133 A (CARTORHONE S A [CH]) 15 August 1967 (1967-08-15) the whole document -----	1-21
A	CH 453 193 A (CARTORHONE S A [CH]) 14 June 1968 (1968-06-14) the whole document -----	1-21
A	FR 2 801 280 A (ITEY FREDERIC [FR]) 25 May 2001 (2001-05-25) the whole document -----	1-21
A	US 5 911 358 A (KENNER RALF [DE] ET AL) 15 June 1999 (1999-06-15) the whole document -----	1,8,17
A	US 3 929 222 A (SMITH WILLIAM PAUL ET AL) 30 December 1975 (1975-12-30) the whole document -----	1,8,17

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
CH 442133	A	15-08-1967	NONE	
CH 453193	A	14-06-1968	NONE	
FR 2801280	A	25-05-2001	NONE	
US 5911358	A	15-06-1999	NONE	
US 3929222	A	30-12-1975	NONE	